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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,805	02/21/2002	William E. Ortyn	BIOL0038	2051
7590 02/05/2008 LAW OFFICES OF RONALD M. ANDERSON			EXAMINER	
Suite 507			YANG, NELSON C	
	00 - 108th Avenue N.E. ellevue, WA 98004		PAPER NUMBER	
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			MAIL DATE	DELIVERY MODE
			02/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/082,805	ORTYN ET AL.
	Office Action Summary	Examiner	Art Unit
		Nelson Yang	1641
T Period for R	he MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address
A SHOR WHICHE - Extensior after SIX - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. On for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing atent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tiviliapply and will expire SIX (6) MONTHS from cause the application to become ABANDON	N. imely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status	•		
2a)	esponsive to communication(s) filed on 31 Och is action is FINAL . 2b) This note this application is in condition for allowant seed in accordance with the practice under E	action is non-final. nce except for formal matters, pr	
Disposition	of Claims		
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	aim(s) 34,35,37-40,42-44,46,49-51,54,56-58 Of the above claim(s) is/are withdraw aim(s) is/are allowed. aim(s) 34,35,37-40,42-44,46,49-51,54,56-58 aim(s) is/are objected to. aim(s) are subject to restriction and/or	vn from consideration. ,60 and 61 is/are rejected.	application.
Application	Papers		
9)⊡ The 10)⊠ The Ap Re	e specification is objected to by the Examiner of drawing(s) filed on 21 February 2002 is/are plicant may not request that any objection to the oplacement drawing sheet(s) including the corrective oath or declaration is objected to by the Examiner.	e: a) accepted or b) objected or b) objected or b) objected drawing(s) be held in abeyance. So olion is required if the drawing(s) is olion	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority und	er 35 U.S.C. § 119		
a)	Certified copies of the priority documents	s have been received. s have been received in Applica ity documents have been receiv ı (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s)			
2) Notice of 3) Informati	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO/SB/08) o(s)/Mail Date	4) Interview Summar Paper No(s)/Mail E 5) Notice of Informal 6) Other:	Date

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 31, 2007 has been entered.

Response to Amendment

- 2. Applicant's amendment of claims 34, 42, 46, 54, 56, 60, 61 is acknowledged and has been entered.
- 3. Claims 34, 35, 37-40, 42-44, 46, 49-51, 54, 56-58, 60-61 are currently pending.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 34, 35, 37-40, 42-44, 46, 49-51, 54, 56-58, 60-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Stern [US 5,981,956] in view of Basiji et al. [US 6,249,341].

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With respect to claims 34, 42, 54, 56, 60, 61, Stern teaches an array comprising regions (features - column 7, lines 10-15) containing different polymer sequences to be coupled in different known locations on the substrate surface (object) (column 5, lines 48-60). Target sequences labeled with detectable groups (probes) are contacted with the array (column 6, lines 52-60), where multiple probes may be used (column 8, lines 25-30). Dichroic beam splitters are used to separate signals from label groups having different response radiation wavelengths, thereby allowing simultaneous detection of multiple fluorescent indicators, and thus simultaneous interrogation of a single array with multiple target sequences (column 10, lines 15-35), where the response radiation from the targets are individually detected through additional detectors such as photomultiplier tubes (column 10, lines 33-50). Stern fails to teach the use of a single detector.

Basiji et al., however, teach the use of a TDI detector, wherein several light sources can be simultaneously projected into the imaging region (column 5, lines 19-30), such that different components of a cell that fluoresce at different wavelengths would be collected on different locations, comprised of pixels, of the TDI detector (column 4, lines 54-67, column 9, lines 25-30). Basiji et al. further teach that the TDI detector allows for high spatial resolution information to be collected simultaneously with high spectral resolution over several hundred nanometers of spectral bandwidth (column 5, lines 10-19).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used a TDI detector, wherein several light sources can be simultaneously projected into the imaging region such that different components of a cell that fluoresce at different wavelengths would be collected on different locations in the invention of Stern, as

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suggested by Basiji et al. in order to collect high spatial resolution information simultaneously with high spectral resolution over several hundred nanometers of spectral bandwidth.

- 6. With respect to claims 35, 43, 57, Stern discloses that target sequences labeled with a detectable group (probes) are contacted with the array (column 6, lines 52-60), which would be specific and bind to a complementary sequence.
- 7. With respect to claims 37, 51, Stern discloses the detection of relatively weak signals such as fluorescence, which would come from the labels (column 12, lines 35-40).
- 8. With respect to claims 38, 44, Stern discloses that the targets may include cells (column 4, lines 40-50).
- 9. With respect to claims 40, 46, 58, Stern teaches that multiple probes may be used (column 8, lines 25-30), where different labels bind to different locations, such that information based on the locations can be extracted (column 7, lines 35-45).
- 10. With respect to claims 49, Stern discloses that the labels may be fluorescent (column 10, lines 28-31).
- 11. With respect to claim 39, 50, Basiji et al. teach that several light sources can be simultaneously projected into the imaging region of the TDI detector (column 5, lines 19-30), such that different components of a cell that fluoresce at different wavelengths would be collected on different locations, comprised of pixels, of the TDI detector (column 4, lines 54-67, column 9, lines 25-30). Therefore, multiple different spectral signatures can be differentiated, including those comprising AAAB, AABB, and ABBB.

Response to Arguments

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12. Applicant's arguments with respect to claims 34, 35, 37-40, 42-44, 46, 49-51, 54, 56-58,

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60-61 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

13. No claims are allowed.

14. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nelson Yang whose telephone number is (571) 272-0826. The

examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long V. Le can be reached on (571)272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

15. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nelson Yang

Patent Examiner

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